

AMENDMENTS TO THE CLAIMS

1 to 5. (Canceled)

6. (New) A method for smoothing a surface of a powder-sintered laminated resin model with a porous rough surface comprising:

a resin impregnation step of dipping said powder-sintered laminated resin model (A) in a two-pack reaction hardening type urethane resin solution (B) with a work life of 1 to 5 minutes and viscosity of 7 to 30 Pas and then decreasing pressure so as to impregnate said surface of said resin model (A) with said two-pack reaction hardening type urethane resin solution (B); and

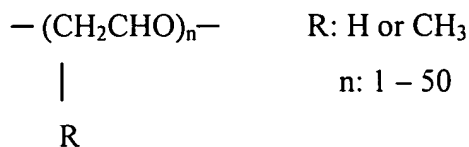
a resin hardening step of bringing up said powder-sintered laminated resin model (A) impregnated with said two-pack reaction hardening type urethane resin solution (B) from said two-pack reaction hardening type urethane resin solution (B) and hardening said resin model (A).

7. (New) The method for smoothing a surface according to claim 6, wherein said two-pack reaction hardening type urethane resin solution (A) preferably comprises multifunctional polyol component (a), multifunctional polyisocyanate component (b) and a plasticizer component (c).

8. (New) The method according to claim 7 wherein an average functional group of the multifunctional polyol component (a) is in a range from 2.0 to 4.0, an average functional group of the multifunctional polyisocyanate component (b) is in a range from 3.0 to 5.0, and a ratio NCO/OH is in a range from 0.7 to 1.0.

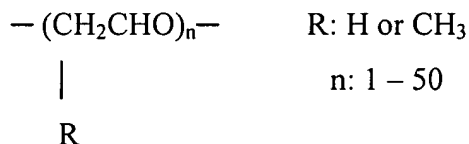
9. (New) The method for smoothing a surface according to claim 7, wherein:

said two-pack reaction hardening type urethane resin solution (A) preferably contains a plasticizer component (c) of 10 - 30 % which is in a liquid state at normal temperature and polyether chains having a chemical structure indicated in the chemical structural formula as follows at 5 - 35 wt% thereof.



10. (New) The method for smoothing a surface according to claim 6, wherein:

said two-pack reaction hardening type urethane resin solution (A) preferably contains a plasticizer component (c) of 10 - 30 % which is in a liquid state at normal temperature and polyether chains having a chemical structure indicated in the chemical structural formula as follows at 5 - 35 wt% thereof.



11. (New) The method for smoothing a surface according to claim 6, wherein:

said plasticizer component (c) is preferably micro-dispersed through phase separation at rapid reaction hardening of the two-pack reaction hardening type urethane resin solution (B).

12. (New) The method for smoothing a surface according to claim 7, wherein:

said plasticizer component (c) is preferably micro-dispersed through phase separation at rapid reaction hardening of the two-pack reaction hardening type urethane resin solution (B).

13. (New) The method for smoothing a surface according to claim 9, wherein:

said plasticizer component (c) is preferably micro-dispersed through phase separation at rapid reaction hardening of the two-pack reaction hardening type urethane resin solution (B).

14. (Currently Amended) The method for smoothing a surface according to claim 10, wherein:

said plasticizer component (c) is preferably micro-dispersed through phase separation at rapid reaction hardening of the two-pack reaction hardening type urethane resin solution (B).

15. (New) A process for lost wax precision casting using said powder-sintered laminated resin model having a surface smoothed by said method according to claim 6.

16. (New) A process for lost wax precision casting using said powder-sintered laminated resin model having a surface smoothed by said method according to claim 7.

17. (New) A process for lost wax precision casting using said powder-sintered laminated resin model having a surface smoothed by said method according to claim 9.

18. (New) A process for lost wax precision casting using said powder-sintered laminated resin model having a surface smoothed by said method according to claim 10.

19. (New) A process for lost wax precision casting using said powder-sintered laminated resin model having a surface smoothed by said method according to claim 11.

20. (New) A process for lost wax precision casting using said powder-sintered laminated resin model having a surface smoothed by said method according to claim 12.

21. (New) A process for lost wax precision casting using said powder-sintered laminated resin model having a surface smoothed by said method according to claim 13.

22. (New) A process for lost wax precision casting using said powder-sintered laminated resin model having a surface smoothed by said method according to claim 14.